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FILE 'CAPLUS' ENTERED AT 08:24:51 ON 03 FEB 2003

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FILE COVERS 1907 - 3 Feb 2003 VOL 138 ISS 6

FILE LAST UPDATED: 2 Feb 2003 (20030202/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s solution(l)polyketone

215375 SOLUTION

251931 SOLUTIONS

455484 SOLUTION

(SOLUTION OR SOLUTIONS)

1964549 SOLN

918463 SOLNS

2487804 SOLN

(SOLN OR SOLNS)

2589808 SOLUTION

(SOLUTION OR SOLN)

10724 POLYKETONE

11228 POLYKETONES

11775 POLYKETONE

(POLYKETONE OR POLYKETONES)

L1 355 SOLUTION(L) POLYKETONE

=> s copolymer(l)carbon monoxide

486714 COPOLYMER

166651 COPOLYMERS

531803 COPOLYMER

(COPOLYMER OR COPOLYMERS)

953535 CARBON

21629 CARBONS

961808 CARBON

(CARBON OR CARBONS)

142687 MONOXIDE

923 MONOXIDES

143180 MONOXIDE

(MONOXIDE OR MONOXIDES)

119549 CARBON MONOXIDE

(CARBON(W) MONOXIDE)

L2 2000 COPOLYMER(L) CARBON MONOXIDE

=> s olefins

L3 86056 OLEFINS

=> s zinc salts or calcium salts or iron salts or thiocyanates

462030 ZINC  
92 ZINCS  
462058 ZINC  
(ZINC OR ZINCS)  
518835 SALTS  
5627 ZINC SALTS  
(ZINC(W) SALTS)  
617290 CALCIUM  
31 CALCIUMS  
617295 CALCIUM  
(CALCIUM OR CALCIUMS)  
518835 SALTS  
7059 CALCIUM SALTS  
(CALCIUM(W) SALTS)  
790242 IRON  
10752 IRONS  
791449 IRON  
(IRON OR IRONS)  
518835 SALTS  
3545 IRON SALTS  
(IRON(W) SALTS)  
6785 THIOCYANATES

L4 21849 ZINC SALTS OR CALCIUM SALTS OR IRON SALTS OR THIOCYANATES

=> d his

(FILE 'HOME' ENTERED AT 08:21:25 ON 03 FEB 2003)

FILE 'CAPLUS' ENTERED AT 08:24:51 ON 03 FEB 2003

L1 355 S SOLUTION(L) POLYKETONE  
L2 2000 S COPOLYMER(L) CARBON MONOXIDE  
L3 86056 S OLEFINS  
L4 21849 S ZINC SALTS OR CALCIUM SALTS OR IRON SALTS OR THIOCYANATES

=> s l2 and l3 and l4

L5 0 L2 AND L3 AND L4

=> s l1 and l2 and l3

L6 7 L1 AND L2 AND L3

=> s l1 and l4

L7 5 L1 AND L4

=> d l6 1-7 bib,abs

L6 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2003 ACS

AN 2002:570338 CAPLUS

DN 137:109652

TI Manufacture of high-purity polyalcohols

IN Hashizume, Kiyoshige; Matsumura, Shunichi

PA Teijin Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002212282	A2	20020731	JP 2001-6117	20010115
PRAI	JP 2001-6117		20010115		

AB The polyalcs. are manufd. by hydrogenation of **polyketones** prepd. from CO and **olefins** in the presence of homogeneous metal

catalysts in solvents, followed by treating the resulting hydrogenated product **solns.** with nonpolar solvents to remove catalysts. Thus, hydrogenation of CO-ethylene copolymer in the presence of tris(acetylacetonato)ruthenium, phenylphosphonic acid, and tributylphosphine in a sulfolane-water mixt., and removal of catalysts by treating with PhMe gave a polyalc. contg. 8 ppm Ru.

L6 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2003 ACS  
 AN 2002:198572 CAPLUS  
 DN 136:370050  
 TI Aqueous polyketone latices prepared with water-insoluble palladium(II) catalysts  
 AU Held, Anke; Kolb, Ludmila; Zuideveld, Martin A.; Thomann, Ralf; Mecking, Stefan; Schmid, Markus; Pietruschka, Raimund; Lindner, Ekkehard; Khanfar, Monther; Sunjuk, Mahmoud  
 CS Institut fuer Makromolekulare Chemie und Freiburger Materialforschungszentrum, Albert-Ludwigs-Universitaet Freiburg, Freiburg, D-79104, Germany  
 SO Macromolecules (2002), 35(9), 3342-3347  
 CODEN: MAMOBX; ISSN: 0024-9297  
 PB American Chemical Society  
 DT Journal  
 LA English  
 AB Alternating copolymn. of **carbon monoxide** with ethylene or 1-**olefins** in aq. emulsion by water-insol. palladium(II) complexes is reported. Latexes of aliph. **polyketones** (1-olefin/CO **copolymers** and ethylene/10-undecenoic acid/CO terpolymers), prepd. by catalytic polymn., are described for the first time. An in-situ catalyst system [ $\{R_2P(CH_2)_3PR_2\}Pd(OAc)_2$ ]/ strong acid ( $R = Ph$  or  $(CH_2)_3Me$ ) or well defined complexes [ $\{Ph_2P(CH_2)_3PPh_2\}PdMe(NCMe)\} + Y^-$  ( $Y^- = [B(3,5-(F_3C)_2C_6H_3]_4^-$  or  $SbF_6^-$ ) were used in the form of a **soln.** of the palladium(II) complex in miniemulsion droplets of a hydrocarbon dispersed in the continuous aq. phase. Catalyst activities of up to 5 .times. 10<sup>3</sup> TO h<sup>-1</sup> slightly exceed those of nonaq. polymns. in methanol with the same catalysts. Polymer mol. wts. (GPC vs PMMA stds.) are typically Mw 2 .times. 10<sup>5</sup> (ethylene **copolymers**) or Mw 2 .times. 10<sup>4</sup> (1-olefin **copolymers**) with Mw/Mn 2-4. The 1-olefin **copolymers** exhibit glass transition temps. of Tg = +10 to -55.degree.C, which is in the range desirable for latex applications.  
 RE.CNT 63 THERE ARE 63 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2003 ACS  
 AN 2001:165741 CAPLUS  
 DN 134:223166  
 TI Production of olefin-**carbon monoxide** **copolymers** in supercritical fluid solution or suspension  
 IN Queisser, Joachim; Hildebrandt, Volker; Lindner, Ekkehard; Schmid, Markus; Wald, Joachim; Wegner, Peter  
 PA BASF A.-G., Germany  
 SO Ger. Offen., 18 pp.  
 CODEN: GWXXBX  
 DT Patent  
 LA German  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19941244	A1	20010308	DE 1999-19941244	19990831
	WO 2001016212	A2	20010308	WO 2000-EP8219	20000823
	W: JP, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
PRAI	DE 1999-19941244	A	19990831		
OS	MARPAT 134:223166				

AB Aliph. **polyketones** are produced from CO and .gtoreq.1 C2-20-olefin(s) in the presence of a metal complex catalyst with 2 to 20 carbon atoms in the presence of a metal complex polymn. catalyst in a supercrit. **soln.** or suspension medium such as CO2. The CO2 is readily sepd. from the product, in contrast to prior-art alcs. used as polymn. media. The prodn. of CO-ethylene and CO-ethylene-1-hexene alternating copolymers in the presence of Pd catalysts was exemplified.

L6 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2003 ACS

AN 1994:77912 CAPLUS

DN 120:77912

TI Catalyst for synthesis of a polyketone

IN Kershner, David L.

PA AKZO N. V., Neth.

SO U.S., 3 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5242878	A	19930907	US 1992-865413	19920408
	WO 9320938	A1	19931028	WO 1993-US3147	19930402
	W: CA, JP				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
PRAI	US 1992-865413		19920408		

AB **Polyketones** are formed from CO and .gtoreq.1 olefin by using a catalyst which comprises a Group VIII metal, an anion of an acid having pKa <4, and a tin tetradentate phosphine ligand, preferably Sn(CH2PPh2)4. Adding SnCl4 to TMEDA-LiCH2PPh2 complex in THF, stirring for 18 h, and refluxing 3 h gave 58% white solid Sn(CH2PPh2)4. Mixing Pd(OAc)2 0.045, Sn(CH2PPh2)4 0.19, and p-TsOH 0.106 g in 20 mL acetone, stripping off the volatiles in vacuo, dissolving the orange residue in 500 mL acetone, autoclaving the **soln.** with 1000 psi 1:1 CO:ethylene gas, and heating at 65.degree. for 18 h gave a **polyketone** with catalyst activity 66 g polymer/g Pd.

L6 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2003 ACS

AN 1991:656988 CAPLUS

DN 115:256988

TI Preparation of polyketones

IN Geuze, Maarten Martinus; Petrus, Leonardus; Salter, James Arthur; De Smedt, Philip Jean Marie Maurice

PA Shell Internationale Research Maatschappij B. V., Neth.

SO Eur. Pat. Appl., 7 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 448177	A2	19910925	EP 1991-200625	19910320
	EP 448177	A3	19920325		
	EP 448177	B1	19951227		
	R: BE, DE, ES, FR, GB, IT, NL				
	US 5122591	A	19920616	US 1991-668848	19910313
	FI 9101357	A	19910923	FI 1991-1357	19910320
	CA 2038654	AA	19910923	CA 1991-2038654	19910320
	CN 1054990	A	19911002	CN 1991-101711	19910320
	CN 1031136	B	19960228		
	AU 9173698	A1	19911003	AU 1991-73698	19910320
	AU 637888	B2	19930610		
	BR 9101083	A	19911105	BR 1991-1083	19910320
	ZA 9102061	A	19911127	ZA 1991-2061	19910320

HU 57242	A2	19911128	HU 1991-933	19910320
HU 210081	B	19950228		
JP 04222830	A2	19920812	JP 1991-57169	19910320
RU 2021288	C1	19941015	RU 1991-4894989	19910320
PL 167050	B1	19950731	PL 1991-289509	19910320
CZ 280546	B6	19960214	CZ 1991-751	19910320
ES 2081421	T3	19960301	ES 1991-200625	19910320
PRAI NL 1990-677		19900322		

AB **Polyketones** with high bulk d. are continuously prepd. by polymg. CO with **olefins** which are fed to the reactor at steady state flow rates. The start-up is performed by feeding the catalysts at a lower flow rate and/or feeding the diluents at a higher flow rate. Thus, feeding 61 kg MeOH and a 25:55:20 (molar) CO-C<sub>2</sub>H<sub>4</sub>-C<sub>3</sub>H<sub>6</sub> mixt. into a reactor, feeding MeOH at 5 kg/h, **soln.** A [contg. 1000 mg Pd acetate 1000, 1,3-bis[bis(2-methoxyphenyl)phosphino]propane 2491, and CF<sub>3</sub>COOH 1067 mg in 1 L acetone] at 6.33 mL/h and **soln.** B (contg. 3000 mg CF<sub>3</sub>COOH in 1 L acetone) at 4.18 mL/h, and polymg. gave **polyketones** with bulk d. 80 kg/m<sup>3</sup> at run-hour 48. The bulk d. of polymers increased to 200 kg/m<sup>3</sup> at run-hour 188 with the increase of feed rates of **soln.** A and B to 25.32 and 17.32 mL/h, resp., at run-hour 137.

L6 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2003 ACS

AN 1991:144246 CAPLUS

DN 114:144246

TI Process for preparing polyketones from **olefins** and carbon monoxide

IN Smith, Kevin Gerald

PA British Petroleum Co. PLC, UK

SO Eur. Pat. Appl., 7 pp.

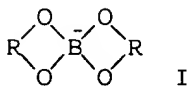
CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	EP 396268	A1	19901107	EP 1990-303957	19900411
	R: BE, CH, DE, DK, FR, GB, IT, LI, NL, SE				
	US 5034507	A	19910723	US 1990-508184	19900412
	CA 2015125	AA	19901026	CA 1990-2015125	19900423
	JP 03017127	A2	19910125	JP 1990-105508	19900423
	AU 9053809	A1	19901101	AU 1990-53809	19900424
	NO 9001832	A	19901029	NO 1990-1832	19900425
PRAI	GB 1989-9476		19890426		
OS	MARPAT 114:144246				
GI					



AB The title process features the use of a Pd catalyst prepd. by reacting together (A) a source of Pd, (B) a bidentate amine, phosphine, arsine, or stibine, and (C) a source of anion I (R = C<sub>1</sub>-6 alkylene, o-phenylene or biphenylene groups or C<sub>6</sub>H<sub>4</sub>CO and derivs.; and the presence of a quinone, e.g. benzoquinone. Charging to an autoclave 1.60 g borosalicylic acid, 0.25 g p-benzoquinone, and 70 mL MeOH, adding 28.11 C<sub>3</sub>H<sub>6</sub> and 10 bar 1.1 mixt. of C<sub>2</sub>H<sub>4</sub>/CO, introducing a catalyst **soln.** of 25 mg Pd(OAc), and 66 mg bis(diphenylphosphino)propane in 10 mL MeOH, and polymg. gave 7.59 **polyketone**.

L6 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2003 ACS  
 AN 1990:460077 CAPLUS  
 DN 113:60077  
 TI Preparation of storage-stable catalyst solution for polymerization  
 carbonmonoxide with **olefins**  
 IN Van Broekhoven, Johannes Adrianus; Miedema, Wiebren  
 PA Shell Internationale Research Maatschappij B. V., Neth.  
 SO Eur. Pat. Appl., 7 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 360359	A1	19900328	EP 1989-202390	19890921
	EP 360359	B1	19930414		
	R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
	US 5010171	A	19910423	US 1989-408012	19890915
	AU 8941590	A1	19900329	AU 1989-41590	19890920
	AU 612896	B2	19910718		
	JP 02115224	A2	19900427	JP 1989-244880	19890920
	JP 2846898	B2	19990113		
	BR 8904723	A	19900501	BR 1989-4723	19890920
	ZA 8907172	A	19900627	ZA 1989-7172	19890920
	AT 88201	E	19930415	AT 1989-202390	19890921
	ES 2055013	T3	19940816	ES 1989-202390	19890921
PRAI	NL 1988-2347		19880922		
	EP 1989-202390		19890921		

OS MARPAT 113:60077

AB The title soln. is prepd. by combining a Pd salt of a monocarboxylic acid and a bisphosphine( R1)2PZP(R1)2 (Z = C>2 divalent group; R1 = aryl group contg. .gtoreq.1 alkoxy group ortho to the P) in an aprotic polar solvent, then mixing with halomonocarboxylic acid (pKa < 2). Thus, a catalyst soln. was prepd. by adding, under N, 1,3-bis[bis(2-methoxyphenyl)phosphino]propane (I) 0.12, Pd(OAc)2 0.1, and F3CCO2H 2 mmol to 60 mL AcMe. CO-C2H4-C3H6 copolymers prepd. using the above catalyst soln. when fresh and aged 30 days had limiting viscosity no. 2.1 and 2.3 dL/g, resp., vs. 2.2 and 1.1, resp. for a catalyst soln. prepd. using a soln. of I in PhMe.

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(FILE 'HOME' ENTERED AT 08:21:25 ON 03 FEB 2003)

FILE 'CAPLUS' ENTERED AT 08:24:51 ON 03 FEB 2003

L1 355 S SOLUTION(L) POLYKETONE  
 L2 2000 S COPOLYMER(L) CARBON MONOXIDE  
 L3 86056 S OLEFINS  
 L4 21849 S ZINC SALTS OR CALCIUM SALTS OR IRON SALTS OR THIOCYANATES  
 L5 0 S L2 AND L3 AND L4  
 L6 7 S L1 AND L2 AND L3  
 L7 5 S L1 AND L4

=> d 17 1-5 bib,abs

L7 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS  
 AN 2001:767538 CAPLUS  
 DN 135:319050  
 TI **Polyketone solution** with freedom from coagulation and  
 method for manufacture  
 IN Morita, Toru; Kato, Jinichiro  
 PA Asahi Chemical Industry Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF  
DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001294668	A2	20011023	JP 2000-110086	20000412
PRAI	JP 2000-110086		20000412		

AB The **soln.** is obtained by dispersing a **polyketone** in an aq. **soln.** contg. 0.01-59% Zn salts, Ca salts, thiocyanate salts or/and Fe salts, then removing the water from the resulting dispersion to a salt concn. of 60-90%.

L7 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2003 ACS  
AN 2001:288901 CAPLUS  
DN 134:312390

TI **Polyketone solution** and manufacture of **polyketone** fibers

IN Morita, Toru; Kato, Jinichiro  
PA Asahi Chemical Industry Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent  
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001115007	A2	20010424	JP 1999-293928	19991015
PRAI	JP 1999-293928		19991015		

AB A **polyketone soln.** for manuf. of high-strength and highly elastic **polyketone** fibers by gel spinning comprises a **polyketone**, prepd. from an olefin and carbon monoxide, and an aq. **soln.** contg. a compd. selected **zinc salts**, **calcium salts**, thiocyanic acid salts, and **iron salts**. The **soln.** has a phase sepn. temp. in the range of 0-250.degree.. **Polyketone** fibers are obtained by extruding the **polyketone soln.** at a temp. below the phase sepn. temp. to give fiber shaped products and then removing a part or entire solvent and stretching to obtain fibers.

L7 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2003 ACS  
AN 2000:905650 CAPLUS  
DN 134:57908

TI **Polyketone** dopes dissolved in aqueous salt **solution** solvents, fibers prepared from them, and simple manufacture of the fibers by wet spinning

IN Morita, Toru; Kato, Jinichiro  
PA Asahi Chemical Industry Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DT Patent  
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000355825	A2	20001226	JP 1999-167370	19990614
PRAI	JP 1999-167370		19990614		

AB **Polyketones** contg. .gtoreq.90% CO-olefin alternating copolymer units are dissolved in aq. CaBr<sub>2</sub>, CaI<sub>2</sub>, thiocyanate salts, FeCl<sub>3</sub>, and/or FeBr<sub>3</sub> **solns.** The fibers are manufd. by extruding **polyketone** dopes through a spinning nozzle, removing solvents from them, and stretching them at 0-300.degree.. Thus, 10% dope of CO-ethylene alternating copolymers dissolved in 75% aq. CaBr<sub>2</sub> **soln.** without decompn. was extruded through a spinning nozzle into 10% aq. CaBr<sub>2</sub>

**soln.**, washed, and stretched 6-fold at 240.degree. to give a fiber with elongation (JIS L 1013) 10%.

L7 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2003 ACS

AN 2000:697469 CAPLUS

DN 133:268170

TI Polyketone fibers with high modulus and improved dimensional stability and heat resistance at high temperatures and manufacture thereof

IN Taniguchi, Toru; Morita, Toru

PA Asahi Chemical Industry Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000273720	A2	20001003	JP 1999-77220	19990323
PRAI	JP 1999-77220		19990323		

AB The fibers exhibit min. storage modulus (E') at 50-150.degree. as detd. by the dynamic viscoelastic measurement at 110 Hz or the fibers exhibit E' at 180.degree. and 110 Hz .gtoreq.80 g/denier and shrinkage at 180.degree. .ltoreq.4%, and the fibers consist of **polyketones** or **polyketones** comprising carbon monoxide-olefin copolymers (A) or polymers contg. .gtoreq.90% A units or **polyketones** showing intrinsic viscosity (.eta.) .gtoreq.0.3. The fibers are prepd. by spinning dopes contg. **polyketones** in aq. **solns.** contg. .gtoreq.50% **zinc salts** or ZnCl2 or zinc complex salts with metals other than Zn, removing the solvents from the fibers, and drawing the fibers at a temp. (T) from 150.degree. to m.p. of the fibers and drawing stress (.sigma.) .gtoreq.(2.25-0.005T) g/denier. The fibers are useful for tire cords (no data). A dope contg. carbon monoxide-ethylene copolymer with .eta. (in m-cresol, at 60.degree.) 4.6 in an aq. **soln.** contg. 75% ZnCl2 was spun into an aq. coagulating bath at 10.degree., washed, wound at 5.6 m/min, dried, drawn to draw ratio 2.3 at 240.degree., subsequently drawn to draw ratio 2.3 at 240.degree. and .sigma. 1.6 g/denier to give fibers with tenacity 10.2 g/denier and elongation 4.5% and showing min. E' at 95.degree. and exhibiting E' at 180.degree. 120 g/denier and shrinkage (JIS L-1013) at 180.degree. 2.1%.

L7 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2003 ACS

AN 1999:471869 CAPLUS

DN 131:103038

TI **Polyketone solutions** containing **zinc salts**

IN Ash, Carlton Edwin

PA Shell Oil Co., USA

SO U.S., 4 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5929150	A	19990727	US 1998-128830	19980804
PRAI	US 1997-61157P	P	19971006		

AB A polymer **soln.** comprises a **polyketone** in the presence of a **soln.** of ZnX2 under dissoln. conditions wherein X is selected from chlorine, bromine, and iodine. The solvents completely dissolve **polyketone** when aq. or org. **solns.** are made from particular concns.

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT



=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

53.45

54.71

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-7.81

-7.81

STN INTERNATIONAL LOGOFF AT 08:27:59 ON 03 FEB 2003